

**OFDM MULTIPLE UPSTREAM RECEIVER NETWORK****ABSTRACT**

A communications system for transferring signals from a wireless transmitter to a hub

5 station, comprising a wireless transmitter configured to transmit a data signal using

multiple sub-carriers, a plurality of base stations each configured to receive the

multiple sub-carrier data signal and relay the multiple sub-carrier data signal to a hub

station; and a hub station configured to receive and combine the multiple sub-carrier

data signals from the plurality of base stations. The wireless transmitter may use an

10 orthogonal frequency division modulation (OFDM) scheme to transmit portions of the

data signal in parallel on multiple sub-carriers.